
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=7; day=7; hr=10; min=16; sec=5; ms=464;]

Reviewer Comments:

<210> 1

<211> 78

<212> DNA

<213> S. cerevisiae

<400> 1

GGAAT TCGGC ACCAT GTGCT TCTGT AAATA GTGTA TTGTG TTTTT AATGT 50
TGGAC TGGTT GGAAT AAAGC TCTAG AGC 78

For SEQ ID # 1 through 30 , "37 CFR 1.822 (c) Format representation of nucleotides. (1) A nucleotide sequence shall be listed using the lower-case letter for representing the one-letter code for the nucleotide bases set forth in WIPO Standard ST.25 (1998) Appendix 2, Table 1." Please make all necessary changes.

Nucleotide bases must be in groups of ten nucleotides, and maximum of 60 per line.

<210> 2

<211> 27

<212> DNA

<213> Artificial sequence

<223> Primer directed to Aplysia cDNA

<400> 2

GCGGA ATTCG TNSAR GTNAT HCCNT GG

If the Numeric identifier <213> is "Artificial" there should be mandatory feature inserted which consists of numeric identifiers <220>, <221>, <222>, and <223>. Numeric identifier "<220> feature" should remain blank, numeric Identifier "<221> Name/Key" should be selected from "WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6," numeric identifier "<222> Location" should "Specify location within sequence," and numeric identifier "<223> Other Information" should provide "Other relevant information, four lines maximum."

The sequence rules require that "the enumeration of nucleotide bases shall start at the first base of the sequence with 1. The enumeration shall be continuous through the whole sequence in the direction 5' to 3'. The enumeration shall be marked in the right margin, next to the line containing the one-letter codes for bases, and giving the number of the last base of that line." The enumeration is not marked in the right margin. Please check for the similar errors as sample shown above and make all necessary corrections.

Validated By CRFValidator v 1.0.3

Application No: 10578203 Version No: 1.0

Input Set:

Output Set:

Started: 2010-06-18 15:39:43.338
Finished: 2010-06-18 15:40:05.747

Elapsed: 0 hr(s) 0 min(s) 22 sec(s) 409 ms

Total Warnings: 762

Total Errors: 75

No. of SeqIDs Defined: 30

| Error code | | Error Description |
|------------|-----|--|
| W | 402 | Undefined organism found in <213> in SEQ ID (1) |
| W | 112 | Upper case found in data; Found at position(0) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(1) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(2) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(3) SeqId(1) |
| M | 112 | Upper case found in data; Found at position(4) SeqId(1) |
| M | 112 | Upper case found in data; Found at position(5) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(6) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(7) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(8) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(9) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(10) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(11) SeqId(1) |
| M | 112 | Upper case found in data; Found at position(12) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(13) SeqId(1) |
| M | 112 | Upper case found in data; Found at position(14) SeqId(1) |
| M | 112 | Upper case found in data; Found at position(15) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(16) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(17) SeqId(1) |
| W | 112 | Upper case found in data; Found at position(18) SeqId(1) |

Output Set:

Started: 2010-06-18 15:39:43.338

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Elapsed: 0 hr(s) 0 min(s) 22 sec(s) 409 ms

Total Warnings: 762

Total Errors: 75

No. of SeqIDs Defined: 30

| Error code | | Error Description |
|------------|-----|---|
| M | 112 | Upper case found in data; Found at position(19) SeqId(1) This error has occured more than 20 times, will not be displayed |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (2) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (2) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 27 SEQID(2) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (3) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (3) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 26 SEQID(3) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (4) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (4) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 21 SEQID(4) |
| M | 213 | Artificial or Unknown found in <213> in SEQ ID (5) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (5) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 20 SEQID(5) |
| M | 213 | Artificial or Unknown found in <213> in SEQ ID (6) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (6) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 24 SEQID(6) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (7) |

Output Set:

Started: 2010-06-18 15:39:43.338

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Elapsed: 0 hr(s) 0 min(s) 22 sec(s) 409 ms

Total Warnings: 762

Total Errors: 75

No. of SeqIDs Defined: 30

| Error code | | Error Description |
|------------|-----|---|
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (7) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 27 SEQID(7) |
| M | 213 | Artificial or Unknown found in <213> in SEQ ID (8) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (8) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 26 SEQID(8) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (9) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (9) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 21 SEQID(9) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (10) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (10) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 24 SEQID(10) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (11) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (11) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 24 SEQID(11) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (12) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (12) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 21 SEQID(12) |

Output Set:

Started: 2010-06-18 15:39:43.338

Finished: 2010-06-18 15:40:05.747

Elapsed: 0 hr(s) 0 min(s) 22 sec(s) 409 ms

Total Warnings: 762

Total Errors: 75

No. of SeqIDs Defined: 30

| Error code | | Error Description |
|------------|-----|---|
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (13) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (13) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 22 SEQID(13) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (14) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (14) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 35 SEQID(14) |
| E | 253 | The number of bases differs from <211> Input: 37 Calculated:35 |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (15) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (15) |
| E | 330 | Invalid protein , found in SEQID(15) POS (1) Invalid Protein: CGGGA |
| E | 330 | Invalid protein , found in SEQID(15) POS (2) Invalid Protein: TCCAT |
| E | 330 | Invalid protein , found in SEQID(15) POS (3) Invalid Protein: GCTGG |
| E | 330 | Invalid protein , found in SEQID(15) POS (4) Invalid Protein: ACAGC |
| E | 330 | Invalid protein , found in SEQID(15) POS (5) Invalid Protein: AACAA |
| E | 330 | Invalid protein , found in SEQID(15) POS (6) Invalid Protein: CAG |
| E | 253 | The number of bases differs from <211> Input: 28 Calculated:0 |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (16) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (16) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 31 SEQID(16) |

Output Set:

Started: 2010-06-18 15:39:43.338

Finished: 2010-06-18 15:40:05.747

Elapsed: 0 hr(s) 0 min(s) 22 sec(s) 409 ms

Total Warnings: 762

Total Errors: 75

No. of SeqIDs Defined: 30

| Error code | | Error Description |
|------------|-----|---|
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (17) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (17) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 26 SEQID(17) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (18) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (18) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 41 SEQID(18) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (19) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (19) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 41 SEQID(19) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (20) |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (20) |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 25 SEQID(20) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (21) This error has occured more than 20 times, will not be displayed |
| E | 224 | <220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (21) This error has occured more than 20 times, will not be displayed |
| E | 254 | The total number of bases conflicts with running total Input: 0, Calculated: 24 SEQID(21) |
| E | 331 | Count of Protein differs from the <211> tag Input: 17 |
| E | 254 | The total number of bases conflicts with running total Input: 0, |

Output Set:

Started: 2010-06-18 15:39:43.338

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Elapsed: 0 hr(s) 0 min(s) 22 sec(s) 409 ms

Total Warnings: 762

Total Errors: 75

No. of SeqIDs Defined: 30

Actual SeqID Count: 30

Error code Error Description

| | | This error has occured more than 20 times, will not be displayed |
|---|-----|---|
| E | 330 | Invalid protein , found in SEQID(29) POS (1) Invalid Protein: TTTGA |
| E | 330 | Invalid protein , found in SEQID(29) POS (2) Invalid Protein: GCATT |
| E | 330 | Invalid protein , found in SEQID(29) POS (3) Invalid Protein:CTGGC |
| E | 330 | Invalid protein , found in SEQID(29) POS (4) Invalid Protein:TTC |
| E | 253 | The number of bases differs from <211> Input: 18 Calculated:0 |
| E | 330 | Invalid protein , found in SEQID(30) POS (1) Invalid Protein: AAACA |
| E | 330 | Invalid protein , found in SEQID(30) POS (2) Invalid Protein: GAGCA |
| E | 330 | Invalid protein , found in SEQID(30) POS (3) Invalid Protein: GGTCC |
| E | 330 | Invalid protein , found in SEQID(30) POS (4) Invalid Protein: CGGCA |
| E | 330 | Invalid protein , found in SEQID(30) POS (5) Invalid Protein: GAAAT |
| E | 330 | Invalid protein , found in SEQID(30) POS (6) Invalid Protein: AGT |
| E | 253 | The number of bases differs from <211> Input: 28 Calculated:0 |

```
<110> Kausik Si and Eric Kandel
<120> Prion-like form of CPEB and related compositions and methods
<130> 68103/JPW/BJA
<140> 10578203
<141> 2010-06-18
<150> PCT/US04/36781
<151> 2004-11-05
<150> 60/518,385
<151> 2003-11-07
<160> 30
<170> PatentIn version 3.3
<210> 1
<211> 78
<212> DNA
<213> S. cerevisiae
<400> 1
GGAAT TCGGC ACCAT GTGCT TCTGT AAATA GTGTA TTGTG TTTTT AATGT
                                                            50
TGGAC TGGTT GGAAT AAAGC TCTAG AGC
                                                            78
<210> 2
<211> 27
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia cDNA
<400> 2
GCGGA ATTCG TNSAR GTNAT HCCNT GG
<210> 3
<211> 26
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia cDNA
<400> 3
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GCGGG ATCCT GNTGC CANTS CCARC A

```
<210> 4
<211> 21
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia mRNA
<400> 4
CACTG TCTTG TTCGA CTCCA G
<210> 5
<211> 20
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia mRNA
<400> 5
AACAC ATGGT TACTG TCCGC
<210> 6
<211> 24
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia mRNA
<400> 6
CATGA AAGCC GTGCA AGCTG CATT
<210> 7
<211> 27
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster mRNA and cDNA
<400> 7
CGGGA TCCAT GTACA ACAAA TTTGT TA
<210> 8
<211> 26
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster mRNA
<400> 8
TCCCC GCGGC GATCC TCCGC CTCCT C
```

```
<211> 21
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster mRNA
<400> 9
ATGGA CTCGC TCAAG TTACC A
<210> 10
<211> 24
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster mRNA
<400> 10
CGCGA TGCCT GATTG ATTGT TGAA
<210> 11
<211> 24
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster mRNA
<400> 11
TGTGC GTTAT TTTAT CGTTT AGTG
<210> 12
<211> 21
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster mRNA
<400> 12
GACTT CATCC GCCAC CAGTC G
<210> 13
<211> 22
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster mRNA
<400> 13
```

<210> 9

CACCA GGAAC TTCTT GAATC CG

```
<210> 14
<211> 37
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster cDNA
<400> 14
CCCTC GAGAA GCTTT TAACA CCAGC GAAAG GGGAC
<210> 15
<211> 28
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster cDNA
<400> 15
CGGGA TCCAT GCTGG ACAGC AACAA CAG
<210> 16
<211> 31
<212> DNA
<213> Artificial sequence
<223> Primer directed to Drosophila melanogaster cDNA
<400> 16
GACTA GTCTA GAATA GATTA GCAAA GAAAT C
<210> 17
<211> 26
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia neuronal actin cDNA
<400> 17
GGGAA TTCGT CTGGA GCCAC CAACA C
<210> 18
<211> 41
<212> DNA
```

<213> Artificial sequence

```
<400> 18
CGGAT CCATT TATTA ACATT GTATA AAAAA TACAG TTGAA C
<210> 19
<211> 41
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia neuronal actin
<400> 19
CGGAT CCATT TATTA ACATT GTATG GGAAA TACAG TTGAA C
<210> 20
<211> 25
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia CPEB cDNA
<400> 20
CGGGA TCCAT GCAAG CCATG GCCGT
<210> 21
<211> 24
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia CPEB cDNA
<400> 21
TCCCC GCGGT GGACC AGGCG TGTA
<210> 22
<211> 17
<212> PRT
<213> Artificial sequence
<223> C-terminal peptide of CPEB (CPEB77)
<400> 22
LCNSH QGNYF CRDLL CF
```

<223> Primer directed to Aplysia neuronal actin

```
<211> 30
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia RNA
<400> 23
GCGAG CTCCG CGGCC GCGTT TTTTT TTTTT
<210> 24
<211> 21
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia sensorin RNA
<400> 24
AACAG AAACA GTCTT TCCCC C
<210> 25
<211> 19
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia sensorin RNA
<400> 25
TCTTG ACTCA CCAAC TGCC
<210> 26
<211> 24
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia Bmp1 RNA
<400> 26
ATCTA TCGCC TATTA TTATC ACCA
<210> 27
<211> 20
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia Bmp1 RNA
```

ATCCC ATGCA TTTGT TTGTT

<400> 27

```
<210> 28
<211> 17
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia N-actin RNA
<400> 28
CCCAT CCATT GTCCA CA
<210> 29
<211> 18
<212> DNA
<213> Artificial sequence
<223> Primer directed to Aplysia N-actin RNA
<400> 29
TTTGA GCATT CTGGC TTC
<210> 30
<211> 28
<212> DNA
<213> Artificial sequence
<223> Antisense oilgo directed to Aplysia CPEB mRNA
<400> 30
AAACA GAGCA GGTCC CGGCA GAAAT AGT
```